



International Astronomical Union Report

presented by
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International Earth Rotation and Reference Systems Service
Directing Board Meeting No. 65

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New Orleans, Louisiana

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IAU 30 GA
VIENNA 2018
AUGUST 20-31

IAU XXX GA
Vienna 2018
August 20-31

www.astronomy2018.org

Division Days

Friday, August 24, 2018

Monday, August 27, 2018

Two Sessions:

- (1) Reference Systems and Frames
- (2) Gaia

Reference Systems & Frames Conveners

Richard Gross, NASA Jet Propulsion Laboratory
Catherine Hohenkerk, HM Nautical Almanac Office

Invited Presentations

Zuheir Altamimi on ITRF2014 (TBC)

Patrick Charlot on ICRF3

Francois Mignard on Gaia DR2 frame (TBC)

Robert Heinkelmann on TRF/CRF/EOP consistency



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The International Astronomical Union — the first 90 years

The year 2009 will forever be remembered as the *International Year of Astronomy*, at least by us astronomers and by the millions who made acquaintance with astronomy this year. But there is more: in 2009 we celebrate also the 90th anniversary of the IAU. Past-president Adriaan Blaauw writes in his book *History of the IAU. Birth and First Half-Century of the International Astronomical Union* (Kluwer, 1994): (p. 1) ".... The IAU was born during the Constitutive Assembly of the International Research Council (IRC) from July 18 to 28, 1919 in the Palais des Académies at Brussels. ...". Blaauw continues: (p.2) " At this Constitutive Assembly of the IRC, constitution of the IAU was the subject of extensive discussions, leading to the adoption of its Statutes on 26 July [1919]. As the Statutes of the IRC itself were formally adopted only on the closing day of the Assembly, we consider this as the date of the creation of the IAU: July 28, 1919. ...". Therefore, we may rightfully celebrate the 90th anniversary of the IAU on 28 July 2009.

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IAU General Assembly
Honolulu, 3-14 August 2015

<https://www.iau.org/administration/about/90years/>

Centennial Anniversary of IAU
and IAU Commission A2
(Rotation of the Earth)
July 28, 2019

The Earth's Time Varying Rotation: A Centennial Celebration

A Proposed IAU Symposium for 2019

Dates: October 7–11, 2019 (5 days)

Location: Brussels, Belgium

Coordinating Division: Division A Fundamental Astronomy

Other Divisions: None

Scientific Organizing Committee Co-Chairs:

Richard Gross, Jet Propulsion Laboratory, California Institute of Technology, USA

Chengli Huang, Shanghai Astronomical Observatory, China Nanjing

Daniela Thaller, Bundesamt für Kartographie und Geodäsie, Germany

Scientific Organizing Committee Members:

Aleksander Brzezinski, Space Research Centre, Poland

Patrick Charlot, Université de Bordeaux, France

Veronique Dehant, Observatoire royal de Belgique, Belgium

Alberto Escapa, Universidad de León, Spain

Jose Ferrándiz, Universidad de Alicante, Spain

Catherine Hohenkerk, HM Nautical Almanac Office, United Kingdom

Zinovy Malkin, Pulkovo Observatory, Russian Federation

Harald Schuh, GeoForschungsZentrum Potsdam, Germany

Florian Seitz, Technische Universität München, Germany

Oleg Titov, Geoscience Australia, Australia

Vladimir Zharov, Sternberg Astronomical Institute, Russian Federation

Key Topics:

- (1) History of scientific activities of IAU Standing Committee 19/Commission 19/A2
- (2) Earth rotation observations, theories, models, and analysis
- (3) Celestial reference systems and frames
- (4) Terrestrial reference systems and frames
- (5) New and emerging measurement systems
- (6) Time scales and space-geodetic tests of relativity
- (7) Fundamental standards

Abstract:

The proposed Symposium on the Earth's time varying rotation is being organized to celebrate the centennial anniversary of Standing Committee 19/Commission 19/Commission A2. The last IAU meetings devoted to the topics of the proposed Symposium were IAU Colloquium 178 "Polar Motion: Historical and Scientific Problems" held in 1999 and IAU Colloquium 180 "Towards Models and Constants for Sub-Microarcsecond Astrometry" held in 2000. The proposed Symposium will be a forum for reviewing the scientific achievements of the Commission during the last 100 years; for discussing the observations, theory, modeling, and analysis of the Earth's time varying rotation including precession, nutation, wobble, UT1, and length-of-day; for discussing new and emerging technologies to observe the Earth's rotation; for discussing the use of Earth orientation parameters to connect the terrestrial and celestial reference frames to each other; and for discussing the standards that are required to ensure that Earth orientation parameters and terrestrial and celestial reference frames are consistently determined.

IAU Commission A2

Rotation of the Earth

Commission Members (95)

Under Division

Division A Fundamental Astronomy

Commission Working Groups

Commission A2 WG Theory of Earth Rotation and Validation (IAU / IAG Joint WG)

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Alberto Escapa (Secretary)
Jose Manuel Ferrándiz
Daniela Thaller
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